

INTERPRETATIONS

Agricultural Waste Management

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table.)

Clinton County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
11B: Colo-----	60	Very limited Depth to saturated zone Leaching limitation Flooding	1.00 0.70 0.60	Very limited Depth to saturated zone Flooding	1.00 1.00	Very limited Depth to saturated zone Flooding	1.00 0.60
Ely-----	30	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Depth to saturated zone Too steep for surface application	0.43 0.08
41B: Sparta-----	100	Very limited Filtering capacity Leaching limitation Droughty	1.00 0.45 0.04	Very limited Filtering capacity Droughty	1.00 0.04	Very limited Filtering capacity Too steep for surface application Droughty	1.00 0.08 0.04
41C: Sparta-----	100	Very limited Filtering capacity Leaching limitation Droughty	1.00 0.45 0.04	Very limited Filtering capacity Droughty	1.00 0.04	Very limited Filtering capacity Too steep for surface application Droughty Too steep for sprinkler application	1.00 0.91 0.04 0.02
41E: Sparta-----	100	Very limited Filtering capacity Slope Leaching limitation Droughty	1.00 0.96 0.45 0.04	Very limited Filtering capacity Slope Droughty	1.00 0.96 0.04	Very limited Too steep for surface application Filtering capacity Too steep for sprinkler application Droughty	1.00 1.00 0.97 0.04

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
42: Granby-----	100	Very limited Depth to saturated zone Filtering capacity Leaching limitation	1.00 1.00 0.90	Very limited Depth to saturated zone Filtering capacity	1.00 1.00	Very limited Depth to saturated zone Filtering capacity	1.00 1.00
51: Vesser-----	100	Very limited Depth to saturated zone Flooding	1.00 0.60	Very limited Depth to saturated zone Flooding	1.00 1.00	Very limited Depth to saturated zone Flooding	1.00 0.60
54: Zook-----	100	Very limited Restricted permeability Depth to saturated zone Flooding Leaching limitation	1.00 1.00 0.60 0.50	Very limited Depth to saturated zone Flooding Restricted permeability	1.00 1.00 1.00	Very limited Depth to saturated zone Restricted permeability Flooding	1.00 1.00 0.60
63C: Chelsea-----	100	Very limited Filtering capacity Leaching limitation	1.00 0.45	Very limited Filtering capacity	1.00	Very limited Filtering capacity Too steep for surface application Too steep for sprinkler application	1.00 0.91 0.02
63E: Chelsea-----	100	Very limited Filtering capacity Slope Leaching limitation	1.00 0.96 0.45	Very limited Filtering capacity Slope	1.00 0.96	Very limited Too steep for surface application Filtering capacity Too steep for sprinkler application	1.00 1.00 0.97

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
63G: Chelsea-----	100	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Filtering capacity	1.00	Filtering capacity	1.00	Too steep for sprinkler application	1.00
		Leaching limitation	0.45			Filtering capacity	1.00
65E2: Lindley-----	95	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Too acid	0.31	Too steep for sprinkler application	1.00
		Too acid	0.08	Restricted permeability	0.22	Too acid	0.31
						Restricted permeability	0.22
65E3: Lindley-----	95	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Too acid	0.31	Too steep for sprinkler application	1.00
		Too acid	0.08	Restricted permeability	0.22	Too acid	0.31
						Restricted permeability	0.22
65F2: Lindley-----	100	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Too acid	0.31	Too steep for sprinkler application	1.00
		Too acid	0.08	Restricted permeability	0.22	Too acid	0.31

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
65F3: Lindley-----	100					Restricted permeability	0.22
		Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Too acid	0.31	Too steep for sprinkler application	1.00
		Too acid	0.08	Restricted permeability	0.22	Too acid	0.31
						Restricted permeability	0.22
65G: Lindley-----	100	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Too acid	0.31	Too steep for sprinkler application	1.00
		Too acid	0.08	Restricted permeability	0.22	Too acid	0.31
						Restricted permeability	0.22
65G3: Lindley-----	100	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Too acid	0.31	Too steep for sprinkler application	1.00
		Too acid	0.08	Restricted permeability	0.22	Too acid	0.31
						Restricted permeability	0.22
83B: Kenyon-----	95	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
83C: Kenyon-----	95	Not limited		Not limited		Somewhat limited Too steep for surface application	0.91
						Too steep for sprinkler application	0.02
83C2: Kenyon-----	95	Not limited		Not limited		Somewhat limited Too steep for surface application	0.91
						Too steep for sprinkler application	0.02
84: Clyde-----	95	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Leaching limitation	0.70				
88: Nevin-----	95	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Depth to saturated zone	0.43
110C: Lamont-----	90	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
		Too acid	0.02	Too acid	0.07	Too steep for surface application	0.66
						Too acid	0.07
						Too steep for sprinkler application	0.01
118: Garwin-----	100	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
		Leaching limitation	0.70				
119: Muscatine-----	90	Somewhat limited Depth to saturated zone Too acid	0.43 0.02	Somewhat limited Depth to saturated zone Too acid	0.43 0.07	Somewhat limited Depth to saturated zone Too acid	0.43 0.07
120: Tama-----	90	Somewhat limited Too acid	0.02	Somewhat limited Too acid	0.07	Somewhat limited Too acid	0.07
120B: Tama-----	90	Somewhat limited Too acid	0.02	Somewhat limited Too acid	0.07	Somewhat limited Too steep for surface application Too acid	0.08 0.07
120C: Tama-----	100	Somewhat limited Too acid	0.02	Somewhat limited Too acid	0.07	Somewhat limited Too steep for surface application Too acid Too steep for sprinkler application	0.91 0.07 0.02
120C2: Tama-----	100	Somewhat limited Too acid	0.02	Somewhat limited Too acid	0.07	Somewhat limited Too steep for surface application Too acid Too steep for sprinkler application	0.91 0.07 0.02
120D: Tama-----	100	Somewhat limited Slope Too acid	0.63 0.02	Somewhat limited Slope Too acid	0.63 0.07	Very limited Too steep for surface application Too steep for sprinkler application	1.00 0.77

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
						Too acid	0.07
120D2: Tama-----	100	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00
		Too acid	0.02	Too acid	0.07	Too steep for sprinkler application	0.77
						Too acid	0.07
133: Colo-----	95	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Leaching limitation	0.70	Flooding	1.00	Flooding	0.60
		Flooding	0.60				
133+: Colo-----	95	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Flooding	1.00	Flooding	1.00	Flooding	1.00
		Leaching limitation	0.70				
142: Chaseburg-----	90	Somewhat limited Flooding	0.60	Very limited Flooding	1.00	Somewhat limited Flooding	0.60
142B: Chaseburg-----	95	Somewhat limited Flooding	0.60	Very limited Flooding	1.00	Somewhat limited Flooding Too steep for surface application	0.60 0.08
143: Brady-----	90	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Too acid	0.02	Too acid	0.07	Too acid	0.07

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
152: Marshan-----	90	Very limited Depth to saturated zone Filtering capacity Leaching limitation	1.00 1.00 0.70	Very limited Depth to saturated zone Filtering capacity	1.00 1.00	Very limited Depth to saturated zone Filtering capacity	1.00 1.00
159: Finchford-----	100	Very limited Filtering capacity Leaching limitation Droughty	1.00 0.45 0.25	Very limited Filtering capacity Droughty	1.00 0.25	Very limited Filtering capacity Droughty	1.00 0.25
159C: Finchford-----	100	Very limited Filtering capacity Leaching limitation Droughty	1.00 0.45 0.25	Very limited Filtering capacity Droughty	1.00 0.25	Very limited Filtering capacity Too steep for surface application Droughty Too steep for sprinkler application	1.00 0.66 0.25 0.01
160: Walford-----	100	Very limited Depth to saturated zone Leaching limitation Restricted permeability	1.00 0.70 0.30	Very limited Depth to saturated zone Restricted permeability	1.00 0.22	Very limited Depth to saturated zone Restricted permeability	1.00 0.22
162B: Downs-----	100	Somewhat limited Too acid	0.02	Somewhat limited Too acid	0.07	Somewhat limited Too steep for surface application Too acid	0.08 0.07
162C: Downs-----	100	Somewhat limited		Somewhat limited		Somewhat limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
		Too acid	0.02	Too acid	0.07	Too steep for surface application	0.91
						Too acid	0.07
						Too steep for sprinkler application	0.02
162C2: Downs-----	100	Somewhat limited Too acid	0.02	Somewhat limited Too acid	0.07	Somewhat limited Too steep for surface application	0.91
						Too acid	0.07
						Too steep for sprinkler application	0.02
162D: Downs-----	95	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00
		Too acid	0.02	Too acid	0.07	Too steep for sprinkler application	0.77
						Too acid	0.07
162D2: Downs-----	95	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00
		Too acid	0.02	Too acid	0.07	Too steep for sprinkler application	0.77
						Too acid	0.07
162E2: Downs-----	95	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Too acid	0.02	Too acid	0.07	Too steep for sprinkler application	1.00
						Too acid	0.07

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
163B: Fayette-----	100	Somewhat limited Too acid	0.02	Somewhat limited Too acid	0.07	Somewhat limited Too steep for surface application Too acid	0.08 0.07
163C: Fayette-----	100	Somewhat limited Too acid	0.02	Somewhat limited Too acid	0.07	Somewhat limited Too steep for surface application Too acid Too steep for sprinkler application	0.91 0.07 0.02
163C2: Fayette-----	100	Somewhat limited Too acid	0.02	Somewhat limited Too acid	0.07	Somewhat limited Too steep for surface application Too acid Too steep for sprinkler application	0.91 0.07 0.02
163D2: Fayette-----	95	Somewhat limited Slope Too acid	0.63 0.02	Somewhat limited Slope Too acid	0.63 0.07	Very limited Too steep for surface application Too steep for sprinkler application Too acid	1.00 0.77 0.07
163D3: Fayette-----	95	Somewhat limited Slope Too acid	0.63 0.02	Somewhat limited Slope Too acid	0.63 0.07	Very limited Too steep for surface application Too steep for sprinkler application Too acid	1.00 0.77 0.07

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
163E2: Fayette-----	100	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Too acid	0.02	Too acid	0.07	Too steep for sprinkler application Too acid	1.00 0.07
163E3: Fayette-----	95	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Too acid	0.02	Too acid	0.07	Too steep for sprinkler application Too acid	1.00 0.07
163F2: Fayette-----	90	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Too acid	0.02	Too acid	0.07	Too steep for sprinkler application Too acid	1.00 0.07
163F3: Fayette-----	90	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Too acid	0.02	Too acid	0.07	Too steep for sprinkler application Too acid	1.00 0.07
163G: Fayette-----	90	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Too acid	0.02	Too acid	0.07	Too steep for sprinkler application	1.00
						Too acid	0.07

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
						Too acid	0.07
163G3: Fayette-----	90	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Too acid	0.02	Too acid	0.07	Too steep for sprinkler application	1.00
						Too acid	0.07
175: Dickinson-----	100	Very limited Filtering capacity Droughty	1.00 0.01	Very limited Filtering capacity Droughty	1.00 0.01	Very limited Filtering capacity Droughty	1.00 0.01
175B: Dickinson-----	95	Very limited Filtering capacity Droughty	1.00 0.01	Very limited Filtering capacity Droughty	1.00 0.01	Very limited Filtering capacity Too steep for surface application Droughty	1.00 0.08 0.01
175C: Dickinson-----	95	Very limited Filtering capacity Droughty	1.00 0.01	Very limited Filtering capacity Droughty	1.00 0.01	Very limited Filtering capacity Too steep for surface application Too steep for sprinkler application Droughty	1.00 0.91 0.02 0.01
175D: Dickinson-----	90	Very limited Filtering capacity Slope	1.00 0.96	Very limited Filtering capacity Slope	1.00 0.96	Very limited Too steep for surface application Filtering capacity	1.00 1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
		Droughty	0.01	Droughty	0.01	Too steep for sprinkler application Droughty	0.97 0.01
177: Saude-----	100	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
177B: Saude-----	90	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity Too steep for surface application	1.00 0.08
177C: Saude-----	100	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity Too steep for surface application Too steep for sprinkler application	1.00 0.91 0.02
178: Waukee-----	90	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
178B: Waukee-----	90	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity Too steep for surface application	1.00 0.08
179D2: Gara-----	95	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for sprinkler application	0.77
						Restricted permeability	0.22
184: Klinger-----	95	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Depth to saturated zone	0.43
		Too acid	0.02	Too acid	0.07	Too acid	0.07
213B: Rockton-----	100	Somewhat limited Depth to bedrock	0.46	Somewhat limited Depth to bedrock	0.46	Somewhat limited Depth to bedrock	0.46
		Too acid	0.02	Too acid	0.07	Too steep for surface application	0.08
		Droughty	0.01	Droughty	0.01	Too acid	0.07
						Droughty	0.01
214B: Rockton-----	100	Somewhat limited Depth to bedrock	0.46	Somewhat limited Depth to bedrock	0.46	Somewhat limited Depth to bedrock	0.46
		Droughty	0.20	Droughty	0.20	Droughty	0.20
		Too acid	0.02	Too acid	0.07	Too steep for surface application	0.08
						Too acid	0.07
214C: Rockton-----	100	Somewhat limited Depth to bedrock	0.46	Somewhat limited Depth to bedrock	0.46	Somewhat limited Too steep for surface application	0.91
		Droughty	0.20	Droughty	0.20	Depth to bedrock	0.46
		Too acid	0.02	Too acid	0.07	Droughty	0.20
						Too acid	0.07
						Too steep for sprinkler application	0.02
216B: Ripon-----	100	Somewhat limited Depth to bedrock	0.46	Somewhat limited Depth to bedrock	0.46	Somewhat limited Depth to bedrock	0.46

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
						Too steep for surface application	0.08
216C: Ripon-----	100	Somewhat limited Depth to bedrock	0.46	Somewhat limited Depth to bedrock	0.46	Somewhat limited Too steep for surface application Depth to bedrock	0.91 0.46
						Too steep for sprinkler application	0.02
217B: Ripon-----	100	Somewhat limited Depth to bedrock	0.46	Somewhat limited Depth to bedrock	0.46	Somewhat limited Depth to bedrock Too steep for surface application	0.46 0.08
217C: Ripon-----	100	Somewhat limited Depth to bedrock	0.46	Somewhat limited Depth to bedrock	0.46	Somewhat limited Too steep for surface application Depth to bedrock	0.91 0.46
						Too steep for sprinkler application	0.02
221: Palms-----	100	Very limited Depth to saturated zone Leaching limitation Low adsorption	1.00 0.90 0.02	Very limited Depth to saturated zone Low adsorption	1.00 1.00	Very limited Depth to saturated zone Low adsorption	1.00 0.02
226: Lawler-----	95	Very limited Filtering capacity Depth to saturated zone	1.00 0.43	Very limited Filtering capacity Depth to saturated zone	1.00 0.43	Very limited Filtering capacity Depth to saturated zone	1.00 0.43
249: Zwingle-----	100	Very limited		Very limited		Very limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
249B: Zwingle-----	95	Restricted permeability	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Runoff limitation	0.40	Too acid	0.31	Too acid	0.31
		Too acid	0.08				
		Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Runoff limitation	0.40	Too acid	0.31	Too acid	0.31
		Too acid	0.08			Too steep for surface application	0.08
284B: Flagler-----	100	Very limited		Very limited		Very limited	
		Filtering capacity	1.00	Filtering capacity	1.00	Filtering capacity	1.00
		Droughty	0.13	Droughty	0.13	Droughty	0.13
						Too steep for surface application	0.01
284C: Flagler-----	100	Very limited		Very limited		Very limited	
		Filtering capacity	1.00	Filtering capacity	1.00	Filtering capacity	1.00
		Droughty	0.13	Droughty	0.13	Too steep for surface application	0.91
						Droughty	0.13
						Too steep for sprinkler application	0.02
285B: Burkhardt-----	100	Very limited		Very limited		Very limited	
		Filtering capacity	1.00	Filtering capacity	1.00	Filtering capacity	1.00
		Droughty	0.37	Droughty	0.37	Droughty	0.37
		Too acid	0.02	Too acid	0.07	Too steep for surface application	0.08

INTERPRETATIONS

Agricultural Waste Management

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Clinton County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
						Too acid	0.07
285D: Burkhardt-----	100	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Too steep for surface application	1.00
		Droughty	0.37	Droughty	0.37	Filtering capacity	1.00
		Slope	0.16	Slope	0.16	Too steep for sprinkler application	0.39
		Too acid	0.02	Too acid	0.07	Droughty	0.37
						Too acid	0.07
285F2: Burkhardt-----	100	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Filtering capacity	1.00	Filtering capacity	1.00	Too steep for sprinkler application	1.00
		Droughty	0.37	Droughty	0.37	Filtering capacity	1.00
		Too acid	0.02	Too acid	0.07	Droughty	0.37
						Too acid	0.07
291: Atterberry-----	95	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
293E: Chelsea-----	30	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Filtering capacity	1.00	Filtering capacity	1.00	Filtering capacity	1.00
		Leaching limitation	0.45	Droughty	0.43	Too steep for sprinkler application	1.00
		Droughty	0.43	Too acid	0.07	Droughty	0.43
		Too acid	0.02			Too acid	0.07
Fayette-----	30	Very limited		Very limited		Very limited	

INTERPRETATIONS

Agricultural Waste Management

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Clinton County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
		Slope	1.00	Slope	1.00	Too steep for surface application	1.00
		Too acid	0.02	Too acid	0.07	Too steep for sprinkler application	1.00
						Too acid	0.07
Lamont-----	30	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Filtering capacity	1.00	Filtering capacity	1.00	Filtering capacity	1.00
		Too acid	0.02	Too acid	0.07	Too steep for sprinkler application	1.00
						Too acid	0.07
315: Fluvents-----	50	Very limited Not Rated (miscellaneous unit)	1.00	Very limited Not Rated (miscellaneous unit)	1.00	Very limited Not Rated (miscellaneous unit)	1.00
		Low adsorption	1.00	Low adsorption	1.00	Low adsorption	1.00
Ambraw-----	30	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Flooding	1.00	Flooding	1.00	Flooding	1.00
		Leaching limitation	0.70	Restricted permeability	0.22	Restricted permeability	0.22
		Restricted permeability	0.30				
350: Waukegan-----	95	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
350B: Waukegan-----	95	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
						Too steep for surface application	0.08

INTERPRETATIONS

Agricultural Waste Management

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Clinton County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
350C: Waukegan-----	95	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity Too steep for surface application Too steep for sprinkler application	1.00 0.91 0.02
351: Atterberry-----	95	Very limited Filtering capacity Depth to saturated zone	1.00 0.43	Very limited Filtering capacity Depth to saturated zone	1.00 0.43	Very limited Filtering capacity Depth to saturated zone	1.00 0.43
352B: Whittier-----	100	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity Too steep for surface application	1.00 0.08
353: Tell-----	100	Very limited Filtering capacity Too acid	1.00 0.02	Very limited Filtering capacity Too acid	1.00 0.07	Very limited Filtering capacity Too acid	1.00 0.07
353B: Tell-----	100	Very limited Filtering capacity Too acid	1.00 0.02	Very limited Filtering capacity Too acid	1.00 0.07	Very limited Filtering capacity Too steep for surface application Too acid	1.00 0.08 0.07
353C: Tell-----	100	Very limited Filtering capacity Too acid	1.00 0.02	Very limited Filtering capacity Too acid	1.00 0.07	Very limited Filtering capacity Too steep for surface application	1.00 0.91

INTERPRETATIONS

Agricultural Waste Management

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Clinton County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
						Too acid	0.07
						Too steep for sprinkler application	0.02
354: Aquolls-----	95	Not rated		Not rated		Not rated	
373E2: Timula-----	100	Very limited Slope	1.00	Very limited Slope	1.00	Very limited	
						Too steep for surface application	1.00
						Too steep for sprinkler application	1.00
377B: Dinsdale-----	90	Somewhat limited Too acid	0.02	Somewhat limited Too acid	0.07	Somewhat limited	
						Too steep for surface application	0.08
						Too acid	0.07
377C: Dinsdale-----	90	Somewhat limited Too acid	0.02	Somewhat limited Too acid	0.07	Somewhat limited	
						Too steep for surface application	0.91
						Too acid	0.07
						Too steep for sprinkler application	0.02
382: Maxfield-----	85	Very limited Depth to saturated zone Leaching limitation	1.00 0.70	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
399: Readlyn-----	95	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Depth to saturated zone	0.43

INTERPRETATIONS

Agricultural Waste Management

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Clinton County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
404: Thorp-----	100	Too acid	0.02	Too acid	0.07	Too acid	0.07
		Very limited		Very limited		Very limited	
		Restricted	1.00	Depth to	1.00	Depth to	1.00
		permeability		saturated zone		saturated zone	
		Depth to	1.00	Restricted	1.00	Restricted	1.00
407B: Schley-----	95	saturated zone		permeability		permeability	
		Leaching	0.50	Too acid	0.07	Too acid	0.07
		limitation					
		Too acid	0.02				
408B: Olin-----	100	Very limited		Very limited		Very limited	
		Depth to	1.00	Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone		saturated zone	
		Too acid	0.08	Too acid	0.31	Too acid	0.31
						Too steep for	0.01
409B: Dickinson-----	100					surface	
						application	
		Not limited		Not limited		Somewhat limited	
						Too steep for	0.08
						surface	
412D: Sogn-----	100					application	
		Very limited		Very limited		Very limited	
		Filtering		Filtering		Filtering	
		capacity	1.00	capacity	1.00	capacity	1.00
						Too steep for	0.08
420: Tama-----	95					surface	
						application	
		Very limited		Very limited		Too steep for	0.39
		Depth to bedrock	1.00	Droughty	1.00	sprinkler	
		Droughty	1.00	Depth to bedrock	1.00	application	
		Runoff limitation	0.40	Slope	0.16		
		Slope	0.16				

INTERPRETATIONS

Agricultural Waste Management

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Clinton County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
		Too acid	0.02	Too acid	0.07	Too acid	0.07
420B: Tama-----	100	Somewhat limited Too acid	0.02	Somewhat limited Too acid	0.07	Somewhat limited Too steep for surface application Too acid	0.08 0.07
426B: Aredale-----	100	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
428B: Ely-----	95	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Depth to saturated zone Too steep for surface application	0.43 0.08
462: Downs-----	95	Somewhat limited Too acid	0.02	Somewhat limited Too acid	0.07	Somewhat limited Too acid	0.07
462B: Downs-----	100	Somewhat limited Too acid	0.02	Somewhat limited Too acid	0.07	Somewhat limited Too steep for surface application Too acid	0.08 0.07
462C: Downs-----	95	Somewhat limited Too acid	0.02	Somewhat limited Too acid	0.07	Somewhat limited Too steep for surface application Too acid Too steep for sprinkler application	0.91 0.07 0.02
463B: Fayette-----	100	Somewhat limited		Somewhat limited		Somewhat limited	

INTERPRETATIONS

Agricultural Waste Management

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Clinton County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
478G: Nordness-----	45	Too acid	0.02	Too acid	0.07	Too steep for surface application	0.08
						Too acid	0.07
		Very limited Slope	1.00	Very limited Depth to bedrock	1.00	Very limited Depth to bedrock	1.00
		Depth to bedrock	1.00	Slope	1.00	Too steep for surface application	1.00
		Droughty	1.00	Droughty	1.00	Too steep for sprinkler application	1.00
						Droughty	1.00
Rock Outcrop-----	45	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Low adsorption	1.00
		Low adsorption	1.00	Low adsorption	1.00	Too steep for surface application	1.00
						Too steep for sprinkler application	1.00
499D: Nordness-----	100	Very limited Depth to bedrock	1.00	Very limited Depth to bedrock	1.00	Very limited Depth to bedrock	1.00
		Droughty	1.00	Droughty	1.00	Too steep for surface application	1.00
		Slope	0.16	Slope	0.16	Droughty	1.00
						Too steep for sprinkler application	0.39
499F: Nordness-----	100	Very limited Depth to bedrock	1.00	Very limited Depth to bedrock	1.00	Very limited Depth to bedrock	1.00
		Slope	1.00	Slope	1.00	Too steep for surface application	1.00
		Droughty	1.00	Droughty	1.00	Too steep for sprinkler application	1.00
						Droughty	1.00

INTERPRETATIONS

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Clinton County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
591B: Clyde-----	55	Very limited Depth to saturated zone Leaching limitation Too acid	1.00 0.70 0.08	Very limited Depth to saturated zone Too acid	1.00 0.31	Very limited Depth to saturated zone Too acid	1.00 0.31
Schley-----	35	Very limited Depth to saturated zone Too acid	1.00 0.08	Very limited Depth to saturated zone Too acid	1.00 0.31	Very limited Depth to saturated zone Too acid Too steep for surface application	1.00 0.31 0.01
662C2: Mt. Carroll-----	100	Not limited		Not limited		Somewhat limited Too steep for surface application Too steep for sprinkler application	0.91 0.02
662D2: Mt. Carroll-----	100	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application Too steep for sprinkler application	1.00 0.77
662E2: Mt. Carroll-----	100	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application Too steep for sprinkler application	1.00 1.00
688: Koszta-----	95	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone	0.86

INTERPRETATIONS

Agricultural Waste Management

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Clinton County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
727: Udolpho-----	95	Too acid	0.02	Too acid	0.07	Too acid	0.07
		Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Filtering capacity	1.00	Filtering capacity	1.00	Filtering capacity	1.00
		Leaching limitation	0.70				
728: Udolpho-----	95	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Filtering capacity	1.00	Filtering capacity	1.00	Filtering capacity	1.00
		Leaching limitation	0.70				
733: Calco-----	90	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Leaching limitation	0.70	Flooding	1.00	Flooding	0.60
		Flooding	0.60				
760: Ansgar-----	95	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Leaching limitation	0.70	Too acid	0.07	Too acid	0.07
		Too acid	0.02				
777B: Wapsie-----	95	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
						Too steep for surface application	0.08
777C: Wapsie-----	95	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00

INTERPRETATIONS

Agricultural Waste Management

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Clinton County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
						Too steep for surface application	0.91
						Too steep for sprinkler application	0.02
809B: Bertram-----	100	Somewhat limited Droughty Depth to bedrock	0.80 0.46	Somewhat limited Droughty Depth to bedrock	0.80 0.46	Somewhat limited Droughty Depth to bedrock Too steep for surface application	0.80 0.46 0.31
918: Garwin-----	100	Very limited Depth to saturated zone Filtering capacity Leaching limitation	1.00 1.00 0.70	Very limited Depth to saturated zone Filtering capacity	1.00 1.00	Very limited Depth to saturated zone Filtering capacity	1.00 1.00
919: Muscatine-----	95	Very limited Filtering capacity Depth to saturated zone Too acid	1.00 0.09 0.02	Very limited Filtering capacity Depth to saturated zone Too acid	1.00 0.09 0.07	Very limited Filtering capacity Depth to saturated zone Too acid	1.00 0.09 0.07
920: Tama-----	100	Very limited Filtering capacity Too acid	1.00 0.02	Very limited Filtering capacity Too acid	1.00 0.07	Very limited Filtering capacity Too acid	1.00 0.07
920B: Tama-----	100	Very limited Filtering capacity Too acid	1.00 0.02	Very limited Filtering capacity Too acid	1.00 0.07	Very limited Filtering capacity Too steep for surface application Too acid	1.00 0.08 0.07

INTERPRETATIONS

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
923: Coyne-----	100	Very limited Filtering capacity Restricted permeability	1.00 0.30	Very limited Filtering capacity Restricted permeability	1.00 0.22	Very limited Filtering capacity Restricted permeability	1.00 0.22
933: Sawmill-----	95	Very limited Depth to saturated zone Leaching limitation Flooding	1.00 0.70 0.60	Very limited Depth to saturated zone Flooding	1.00 1.00	Very limited Depth to saturated zone Flooding	1.00 0.60
949: Zwingle Variant-----	100	Very limited Restricted permeability Depth to saturated zone Runoff limitation Too acid	1.00 1.00 0.40 0.02	Very limited Restricted permeability Depth to saturated zone Too acid	1.00 1.00 0.07	Very limited Restricted permeability Depth to saturated zone Too acid	1.00 1.00 0.07
951F: Medary-----	100	Very limited Slope Restricted permeability Runoff limitation Too acid	1.00 1.00 0.40 0.08	Very limited Restricted permeability Slope Too acid	1.00 1.00 0.31	Very limited Restricted permeability Too steep for surface application Too steep for sprinkler application Too acid	1.00 1.00 1.00 0.31
953: Darwin Variant-----	100	Very limited Restricted permeability Depth to saturated zone Droughty Depth to bedrock Runoff limitation	1.00 1.00 1.00 0.46 0.40	Very limited Restricted permeability Depth to saturated zone Droughty Depth to bedrock	1.00 1.00 1.00 0.46	Very limited Restricted permeability Depth to saturated zone Droughty Depth to bedrock	1.00 1.00 1.00 0.46
960: Shaffton-----	95	Very limited		Very limited		Very limited	

INTERPRETATIONS

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Clinton County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
		Filtering capacity	1.00	Filtering capacity	1.00	Filtering capacity	1.00
		Flooding	0.60	Flooding	1.00	Flooding	0.60
		Depth to saturated zone	0.43	Depth to saturated zone	0.43	Depth to saturated zone	0.43
		Too acid	0.02	Too acid	0.07	Too acid	0.07
961: Ambraw-----	95	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Leaching limitation	0.70	Flooding	1.00	Flooding	0.60
		Flooding	0.60	Restricted permeability	0.22	Restricted permeability	0.22
		Restricted permeability	0.30				
962: Elvira-----	90	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Flooding	1.00	Flooding	1.00	Flooding	1.00
		Filtering capacity	1.00	Filtering capacity	1.00	Filtering capacity	1.00
		Leaching limitation	0.70				
963: Elvers-----	95	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Leaching limitation	0.70	Flooding	1.00	Flooding	0.60
		Flooding	0.60				
976: Raddle-----	100	Not limited		Not limited		Not limited	
1118: Garwin-----	95	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Leaching limitation	0.70				
1119: Muscatine-----	95	Somewhat limited		Somewhat limited		Somewhat limited	

INTERPRETATIONS

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
		Depth to saturated zone	0.43	Depth to saturated zone	0.43	Depth to saturated zone	0.43
		Too acid	0.02	Too acid	0.07	Too acid	0.07
1142: Chaseburg-----	90	Very limited Flooding	1.00	Very limited Flooding	1.00	Very limited Flooding	1.00
1160: Walford-----	100	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Leaching limitation	0.70	Restricted permeability	0.22	Restricted permeability	0.22
		Restricted permeability	0.30				
1291: Atterberry-----	95	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
1777: Wapsie Variant-----	90	Very limited Flooding	1.00	Very limited Flooding	1.00	Very limited Flooding	1.00
		Filtering capacity	1.00	Filtering capacity	1.00	Filtering capacity	1.00
1954: Darwin-----	97	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Flooding	1.00	Flooding	1.00	Flooding	1.00
		Runoff limitation	0.40				
5010: Pits-----	100	Not rated		Not rated		Not rated	
5030: Pits-----	100	Not rated		Not rated		Not rated	

INTERPRETATIONS

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
5040: Orthents-----	100	Not rated		Not rated		Not rated	